

## SECTION 812 -- COVER CROP SEEDING

### 812.01 -- Description

1. Cover crop seeding shall consist of furnishing and applying the appropriate cover crop seed as shown in Table 812.01.
2. Cover crop seeding shall be applied to any disturbed area requiring erosion control except areas to receive "Slope Protection" or "Erosion Control, Type \_\_\_\_". It is intended to be used in staged construction areas, surcharge areas, or other disturbed areas that have not been permanently seeded.
3. Certain areas may require cover crop seeding more than once, either because the Contractor disturbs the area as a consequence of normal construction activity or for some other reason that the Engineer determines the seed needs to be replaced.
4. If the cover crop is disturbed through the Contractor's negligent action, then the Contractor shall replant the disturbed cover crop at no additional cost to the Department.
5. The Engineer will designate the areas that are to be cover crop seeded and when they are to be seeded.

### 812.02 -- Material Requirements

1. The cover crop seed shall comply with the following requirements and shall be applied at the rates shown in Table 812.01.

**Table 812.01**

**Cover Crop Seed Requirements**

Cover Crop Seed and Limitations	Minimum Purity (%)	Minimum Germination (%)	Approved Broadcast or Hydraulic Seeder Application Rate (pounds per acre)	Approved Mech. Drill Application Rate (pounds per acre)
Oats: Jan. 1 - May 1, May 2 - July 15 & July 16 - Aug. 31	80	60	64	64
Pearl Millet or Foxtail Millet: May 2 - July 15	80	60	25	25
Winter Wheat: Sept. 1 - Dec. 31	80	60	60	60
Annual Ryegrass Urban Areas: Jan. 1 - Dec. 31	80	80	50	50

2. The Engineer may approve the use of the seed in the field based on the seed tag analysis. Bin runs of good quality seed may be used without a seed test if the application rate is 10 percent higher than prescribed in Table 812.01.

3. Fertilizer is not required for cover crop seeding.

4. Mulch is not required for cover crop seeding.

5. When there is no quantity of wetland seeding shown in the bid items, the wetland areas shall be covercrop seeded with oats or wheat at a rate of 20 percent of that shown for covercrop seeding. The wetland areas to be covercrop seeded are included in the quantity of "Covercrop Seeding" shown in the plans.

6. If the wetland area is too wet to seed with conventional equipment, the area shall be broadcast seeded or hydroseeded. If the area has too much standing water and the germination of the seed does not seem likely, the project manager will determine if the area shall not be seeded.

#### **812.03 -- Construction Methods**

1. The Contractor shall prepare the seed bed only where less than 1 1/2 inch of loose soil is available. This requirement is dependent upon soil type and may be altered at the direction of the Engineer so that less loose earth may be acceptable, but never will more than 1 1/2 inches depth of loose soil be required.

2. a. The Contractor shall apply the seed at the rate shown in Table 812.01.

b. Any drill or broadcast seeder may be used for the work of cover crop seeding.

c. The seeding equipment shall be calibrated in accordance with the manufacturer's recommended procedures.

d. If the seed is broadcast, a light harrowing shall be required to incorporate the seed into the soil.

e. The harrow may be attached to the broadcast seeder.

3. The work of cover crop seeding shall be started within 24 hours following the finish grading operation. The finish grading operation shall be started as soon as there are 9 acres of ground that could be finished graded.

4. a. Mulching, when directed by the Engineer, shall be applied as stated in Subsection 805.03.

b. Mulching directed by the Engineer for cover crop seeding areas is paid on an extra work basis.

#### **812.04 -- Method of Measurement**

1. Cover crop seeding is measured by the acre of ground surface seeded.

2. The quantity to be paid for shall be the quantity shown in the plans, and no field measurement is required. However, when the Engineer determines that adjustments to the quantity are required due to major deviations from the plans or authorized additions, deletions, or reseeding eligible for compensation, the areas will be calculated from surface measurements of the length and width  $\pm 1$  yard.

**812.05 -- Basis of Payment**

<b>1. Pay Item</b>	<b>Pay Unit</b>
Cover Crop Seeding	Acre (A)

2. The quantity shown in the plans includes the necessary additional cover crop seeding due to anticipated phased construction.

3. Payment is full compensation for all work prescribed in this Section.